

# RESISTO PRODUCTS INSTALLATION GUIDE FOR FOUNDATIONS

Each solution has its colour.

ROOFS

FOUNDATIONS

VARIOUS WATERPROOFING

CONSTRUCTIONAL DETAILS

Make the right choice!



- 3 FOUNDATION WATERPROOFING
- 4 CRACK REPAIRS
- 5 ICF FOUNDATION WATERPROOFING

## Time-tested premium quality products

Whether you're building or renovating, RESISTO products offer effective solutions for preventing and eliminating water leaks.

Manufactured by SOPREMA, RESISTO products are the benchmark for residential waterproofing.

## Warranty

RESISTO products are guaranteed against manufacturing defects and are suitable for the uses for which they are designed. SOPREMA'S responsibility under this warranty is limited to the replacement of defective RESISTO products.



CUSTOMER SERVICE

1 877 478.8408

[www.resisto.ca](http://www.resisto.ca)

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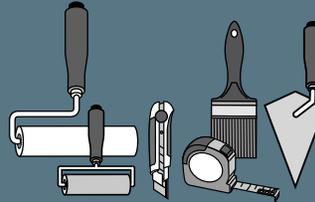


# FOUNDATION WATERPROOFING



RESISTO membranes are the ideal solution for waterproofing or repairing cracks in foundations.

### REQUIRED TOOLS



Do not use foam rollers or plastic trays for exterior primer.

### REQUIRED PRODUCTS



### APPLICATION TEMPERATURE

- Minimum application temperature 10 °C (50 °F)

## BASIC WATERPROOFING MEMBRANE

SELF-ADHESIVE ELASTOMERIC



### THE BASIC WATERPROOFING MEMBRANE

is a 60-mil-thick (1.5 mm) self-adhesive membrane composed of elastomeric bitumen and trilaminate woven polyethylene. The self-adhesive bottom surface is covered with an easy-to-remove silicone-treated release sheet.

The BASIC WATERPROOFING MEMBRANE is used to waterproof foundations and as an underlayment in two-ply roofing systems.

### BENEFITS

#### WATERPROOFING FOUNDATIONS

- Effective, long-lasting solution for waterproofing foundations
- Consistent thickness
- Superior adherence
- UV resistant (90-day exposure)
- Remains effective even if cracks appear
- High tear and puncture resistance
- Flexible, and adapts to all corners

#### REPAIRING CRACKS

- Effective solution for repairing cracks in foundations
- Resolves problems at the source (from the outside)
- Remains effective even if new cracks appear

#### RECOMMENDED USES

Waterproofing membrane for

- Concrete foundations
- Concrete block foundations
- Insulated Concrete Forms (ICF) **\*\*version 15244 recommended\*\***
- Preserved wood foundations (PVWF)

Base sheet reinforcement

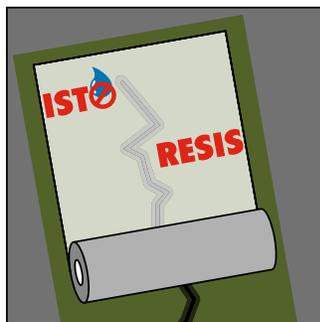
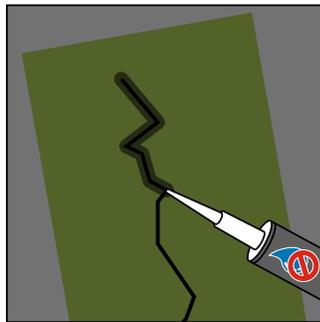
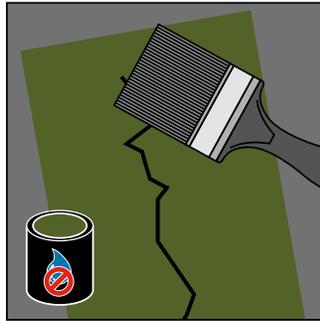
- Semi-flat roofs (two-ply systems) *(See RESISTO product installation guide for ROOFS)*

# REPAIRING CRACKS IN FOUNDATIONS

## APPLICATION METHOD

### REPAIRING CRACKS IN FOUNDATIONS

Use the same procedure as for complete foundations to apply **RESISTO EXTERIOR PRIMER** (see page 6).



### REPAIRING CRACKS

- Fill the crack with **RESISTO ELASTOMERIC SEALER**.
- Install the **BASIC WATERPROOFING MEMBRANE** over the crack, gradually peeling back the release sheet.
- Press down on the entire surface of the membrane using a hard roller to ensure good adherence.
- Apply **RESISTO ELASTOMERIC SEALER** around the edges of membrane to complete the work.



### THE RESISTO WATERPROOFING KIT FOR FOUNDATION CRACKS

contains all the material needed to repair a crack in the foundations of residential and commercial buildings.

#### CONTENTS OF THE KIT:

- **RESISTO EXTERIOR PRIMER** (910 ml)
- **RESISTO BASIC WATERPROOFING MEMBRANE** (20 in X 11.5 ft / 50 cm X 3.5 m)
- Cartridge of **RESISTO ELASTOMERIC SEALER** (310 ml)
- Brush and gloves

# ICF FOUNDATIONS

## ICF FOUNDATION WATERPROOFING MEMBRANE

is a 40-mil-thick (1.0 mm) self-adhesive membrane composed of elastomeric bitumen and trilaminate woven polyethylene. The bottom self-adhesive surface is covered with an easy-to-remove silicone-coated release sheet.

The ICF FOUNDATION WATERPROOFING MEMBRANE is designed to waterproof ICF foundations (Insulated Concrete Forms).

## FOUNDATION/ICF

### WATERPROOFING MEMBRANE

SELF-ADHESIVE ELASTOMERIC



**RESISTO H<sub>2</sub>O PRIMER**, as needed.



### BENEFITS

- Self-adhesive formulation specially designed for ICF foundations
- Primer not required (on clean, dry surfaces)
- Superior adherence
- Consistent thickness
- UV resistant (90-day exposure)
- High puncture resistance
- Effective and long-lasting
- Easy, mess-free installation
- No special tools required

### RECOMMENDED USES

- ICF foundations (expanded or extruded polystyrene)
- Concrete foundations (**RESISTO PRIMER** required)
- Preserved Wood Foundations (PVF)

### APPLICATION TEMPERATURE

- **SUMMER** grade: 50°F to 185°F (10°C to 85°C)
- **WINTER** grade: 14°F to 160°F (-10°C to 70°C)

# WATERPROOFING FOUNDATIONS BELOW-GRADE

## APPLICATION METHOD FOR THE BASIC WATERPROOFING MEMBRANE AND ICF FOUNDATION WATERPROOFING MEMBRANE

**APPLICATION CONDITIONS**  
The minimum application temperature for RESISTO membranes is 10°C (50°F). Surfaces must be clean and dry. It is important to bring products to ambient temperature before use.

- SUBSTRATE**
- Concrete
  - Concrete blocks
  - ICF blocks
  - PWF foundations

**PREPARATION**

- Use a chalk line to delimit the surface where the membrane is to be applied. Fig. 1
- Use a brush or roller to apply a coat of RESISTO PRIMER.

**NOTE**  
Even if adherence on ICF blocks is generally excellent without primer, certain situations may call for the use of a primer. In such cases, apply only water-based RESISTO H<sub>2</sub>O PRIMER.

**APPLYING RESISTO PRIMER**  
**NOTE**  
If a foundation sealant was recently applied to the wall of the foundation, please contact RESISTO because solvent-based RESISTO EXTERIOR PRIMER may dilute the sealant and reduce adherence to the substrate.



**Drying time**  
½ hour to 3 hours, depending on application conditions. The drying time can vary according to the ambient temperature and the thickness applied, but also according to the type of substrate.

**Coverage**  
EXTERIOR PRIMER:  
1 L covers 32 to 55 ft² (3 to 5 m²)  
H<sub>2</sub>O PRIMER:  
1 L covers 32 to 96 ft² (3 to 9 m²)  
Coverage may vary depending on the permeability of the substrate.

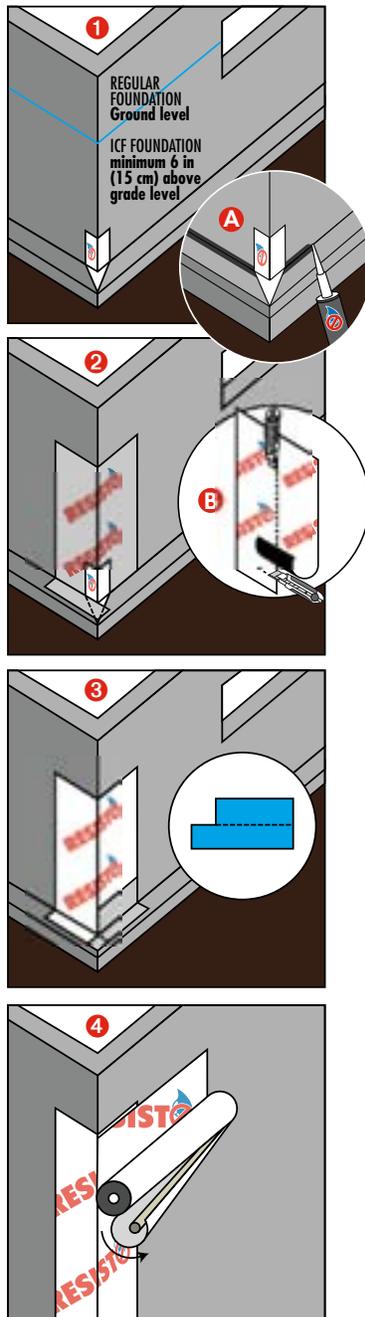
If fresh concrete is to be waterproofed, make sure the concrete has had sufficient time to set before applying the membrane.

## INSTALLING THE RESISTO BASIC WATERPROOFING MEMBRANE OR ICF FOUNDATION WATERPROOFING MEMBRANE

**First step:**

- Treat the foundation corners. Install a gusset (a small piece of membrane) each time a corner is to be covered with RESISTO BASIC WATERPROOFING MEMBRANE. Fig. 1 5
- On concrete or PWF foundations only: apply a bead of RESISTO ELASTOMERIC SEALER (max ½ in [1.2 cm]) at the junction between the footing and the foundation-wall; this will procure an additional protection when the transition membrane is applied. Fig. A

### OUTSIDE CORNERS



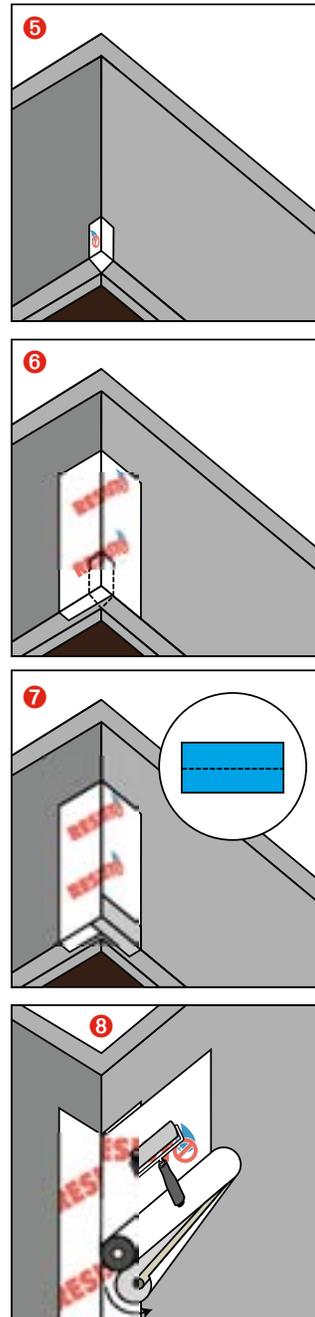
**Second step:**

- Cut the membrane in two to obtain two strips the same height as the foundation surface to be covered. Fig. 8
- Cover the inside and outside corners of the foundation with the strips to reinforce them. It is important to carefully position the strips by affixing one side at a time. Fig. 2 3 6 7

**Third step:**

- Install the membrane from top to bottom starting at one corner of the foundation.
- Peel back the release sheet on the bottom surface by 4 in (10 cm) to adhere the top edge of the membrane to the foundation. This will hold the membrane against the foundation for easier installation. Fig. 4

### INSIDE CORNERS

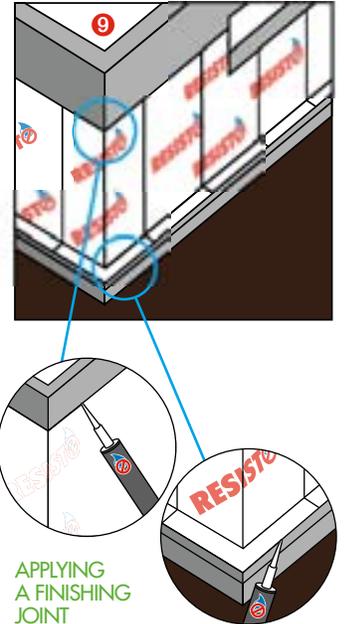


- Use a small rubber roller to press down on the membrane to increase adherence while gradually peeling back the release sheet. Fig. 8
- Overlap each membrane strip by 4 in (10 cm) (the dotted line on the membrane indicates where they should be overlapped).
- The membrane must cover 2/3 of the footing at the bottom of the wall.

To make installation easier, pre-cut membrane strips to the height of the foundation to be protected (grade level – drain).

When adhering to ICF foundations, the membrane should extend beyond the grade level by approximately 6 in (15 cm) to ensure that rainwater does not come into contact with the insulation. The aboveground portion of the covering (e.g., parging\*, fibrocement panels) should overlap the top edge of the membrane.

\* A reinforcement wire mesh must be mechanically fastened to the foundation to apply the parging onto the membrane.



### APPLYING A FINISHING JOINT

**CONCRETE FOUNDATIONS**  
To ensure a perfect seal, apply RESISTO ELASTOMERIC SEALER along the top edge of the membrane and at the bottom along the footing around the entire foundation to avoid seepage. Fig. 9

**ICF FOUNDATIONS**  
Apply RESISTO ELASTOMERIC SEALER around the entire foundation, but only at the bottom along the footing.

**RECOMMENDATIONS**  
If the soil is rocky, use sand or install a protective panel (e.g., fibreboard, insulation, or asphaltic panel such as RESISTOBOARD) around the entire foundation to avoid perforating the membrane while backfilling.

However, when the backfill soil is clayey, a protective panel must be installed to ensure the integrity of the waterproofing system.